



EARTH SYSTEM SCIENCE

Data and Services

CRYOSPHERE Data Set Reference Sheet

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Physical Properties	Data Center	Selected Data Sets and Data Collections <i>Complete data set listings available through each individual data center. For more information about NASA's Earth Observing System Data and Information System (EOSDIS) data centers, see: http://nasadaacs.eos.nasa.gov</i>
Land Ice Ice sheet topography, ice sheet volume change, glacier change	LaRC ASDC http://eosweb.larc.nasa.gov	<ul style="list-style-type: none"> • Multi-angle Imaging SpectroRadiometer (MISR) Level 1B2 Ellipsoid Data, Level 1B2 Terrain Data, Level 2 Surface Parameters, and Level 3 Component Global Land (daily, monthly, quarterly, and yearly) Products • International Satellite Cloud Climatology Project (ISCCP) D1, D2, and ICESNOW data products
	ASF SDC http://www.asf.alaska.edu	<ul style="list-style-type: none"> • RAMP AMM-1 SAR Image Mosaic of Antarctica 125m resolution mosaic via ftp and 25m resolution mosaic tiles on DVD (to NASA-approved investigators) • RADARSAT-1, ERS-1, ERS-2, JERS-1 and PALSAR SAR images • International Polar Year Datasets (Level 0 and Level 1 SAR)
	LP DAAC https://lpdaac.usgs.gov	<ul style="list-style-type: none"> • ASTER Digital Elevation Model • ASTER L1B Registered Radiance at the Sensor
	NSIDC DAAC http://nsidc.org/daac	<ul style="list-style-type: none"> • GLAS/ICESat 500 m Laser Altimetry Digital Elevation Model of Antarctica • GLAS/ICESat 1 km Laser Altimetry Digital Elevation Model of Greenland • Greenland 5 km DEM, Ice Thickness, and Bedrock Elevation Grids • Antarctic 5-km DEM from ERS-1 Altimetry • Digital SAR Mosaic and Elevation Map of the Greenland Ice Sheet • GLAS/ICESat L1B Global Elevation Data • GLAS/ICESat L2 Global Antarctic and Greenland Ice Sheet Altimetry Data • Radarsat Antarctic Mapping Project Digital Elevation Model Version 2 • RAMP AMM-1 SAR Image Mosaic of Antarctica • Antarctic Ice Velocity Data • Program for Arctic Regional Climate Assessment (PARCA) Data • Images of Antarctic Ice Shelves [from AVHRR and MODIS] • Global Monthly EASE-Grid Snow Water Equivalent Climatology • MODIS Mosaic of Antarctica (MOA) Image Map • Greenland Ice Sheet Melt Characteristics Derived from Passive Microwave Data
	PO.DAAC http://podaac.jpl.nasa.gov	<ul style="list-style-type: none"> • BYU Daily Browse Images of NSCAT, QuikSCAT, and SeaWinds Sigma-0 Measurements • BYU Enhanced Resolution Images of Seasat, ERS, and NSCAT Sigma-0 Measurements
Gravity Gravity Field Models, Measurements	CDDIS http://cddis.gsfc.nasa.gov	<ul style="list-style-type: none"> • Ground Network/Satellite Measurements: Daily, hourly, and sub-hourly code and phase observations from GNSS ground network; Daily and hourly files of round trip time of flight from satellite laser ranging (SLR) ground network; Time-tagged range-rate measurements from DORIS ground network • Station positions and velocities from GNSS, SLR, VLBI and DORIS ground networks • Daily and weekly precision satellite orbits derived from GNSS, SLR, and DORIS ground network observations. Note: Precise satellite orbits are required for higher level products.
	PO.DAAC http://podaac.jpl.nasa.gov	<ul style="list-style-type: none"> • GRACE Level 2 Monthly Gravity Field Estimates • Surface Mass Density Changes from GRACE (monthly mass grids of water equivalent thickness)

Sea Ice Extent, concentration, motion, temperature	LaRC ASDC http://eosweb.larc.nasa.gov	<ul style="list-style-type: none"> • ISCCP D1, D2, and ICESNOW Data Products • MISR Level 1B2 Ellipsoid Data • First ISCCP Regional Experiment (FIRE) data sets
	ASF SDC http://www.asf.alaska.edu	<ul style="list-style-type: none"> • RADARSAT-1, ERS-1, ERS-2, JERS-1 and PALSAR SAR images • ERS-1 Ice Motion Vectors • Radarsat-1 (1996-2008) and ERS-1 (1991-93) Geophysical Processing System Sea Ice Products
	NSIDC DAAC http://nsidc.org/daac	<ul style="list-style-type: none"> • Bootstrap Sea Ice Concentrations from Nimbus-7 SMMR and DMSP SSM/I • Sea Ice Concentrations from Nimbus-7 SMMR and DMSP SSM/I Passive Microwave Data • DMSP SSM/I Daily and Monthly Polar Gridded Sea Ice Concentrations • Near-Real-Time SSM/I-SSMIS EASE-Grid Daily Global Ice Concentration and Snow Extent • Near-Real-Time DMSP SSM/I-SSMIS Daily Polar Gridded Sea Ice Concentrations • Sea Ice Trends and Climatologies from SMMR and SSM/I • NASA Scatterometer Climate Pathfinder (SCP) Arctic and Antarctic Ice Extent from QuikSCAT, 1999-2004 • AVHRR Polar Pathfinder Twice-Daily 5km and 25km EASE-Grid Composites • GLAS/ICESat L2 Sea Ice Altimetry Data • Polar Pathfinder Daily 25 km EASE-Grid Sea Ice Motion Vectors • When the Weather is Uggianaqtug: Inuit Observations of Environmental Change • AMSR-E/Aqua Daily L3 12.5 km Brightness Temperatures, Sea Ice Concentration, and Snow Depth Polar Grids • AMSR-E/Aqua Daily L3 25 km Brightness Temperatures & Sea Ice Concentration Polar Grids • MODIS/Terra Sea Ice Extent 5-Min L2 Swath 1km Data • MODIS/Aqua Sea Ice Extent 5-Min L2 Swath 1km Data • MODIS/Terra Sea Ice Extent and IST Daily L3 Global 1km & 4km EASE-Grid Data for Day and Night • MODIS/Aqua Sea Ice Extent and IST Daily L3 Global 1km & 4km EASE-Grid Data for Day and Night
	PO.DAAC http://podaac.jpl.nasa.gov	<ul style="list-style-type: none"> • BYU Daily Browse Images of NSCAT, QuikSCAT, and SeaWinds Sigma-0 Measurements • BYU Enhanced Resolution Images of Seasat, ERS, and NSCAT Sigma-0 Measurements
Snow Cover Extent, water, equivalent, depth	LaRC ASDC http://eosweb.larc.nasa.gov	<ul style="list-style-type: none"> • MISR Level 1B2 Ellipsoid Data and Level 1B2 Terrain Data • ISCCP D1, D2, and ICESNOW data products
	NSIDC DAAC http://nsidc.org/daac	<ul style="list-style-type: none"> • Global EASE-Grid 8-day Blended SSM/I and MODIS Snow Cover Data • AMSR-E/Aqua Daily, 5-day, and Monthly L3 Global Snow Water Equivalent EASE-Grids • CLPX-Airborne: Airborne GPS Bistatic Radar • CLPX-Ground: Snow Measurements Data • CLPX-Satellite: MODIS Radiances, Reflectances, Snow Cover and Related Grids • Historical Soviet Daily Snow Depth Version 2 (HSDSD) • Near-Real-Time SSM/I-SSMIS EASE-Grid Daily Global Ice Concentration and Snow Extent • Global Monthly EASE-Grid Snow Water Equivalent (SWE) Climatology • Nimbus-7 SMMR Derived Monthly Global Snow Cover and Snow Depth • Northern Hemisphere EASE-Grid Weekly Snow Cover and Sea Ice Extent Version 3 • Program for Arctic Regional Climate Assessment (PARCA) Data Sets • When the Weather is Uggianaqtug: Inuit Observations of Environmental Change • MODIS/Aqua L2 & L3 Daily, 8-day, and Monthly Snow Cover Data • MODIS/Terra L2 & L3 Daily, 8-day, and Monthly Snow Cover Data • IMS Daily Northern Hemisphere Snow and Ice Analysis at 4 km and 24 km Resolution

LaRC ASDC Langley Research Center (LaRC) Atmospheric Science Data Center (ASDC)

ASF SDC Alaska Satellite Facility (ASF) Synthetic Aperture Radar Data Center (SDC)

CDDIS Crustal Dynamics Data Information System

LP DAAC Land Processes DAAC

NSIDC DAAC National Snow and Ice Data Center DAAC

PO.DAAC Physical Oceanography DAAC

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